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August 20, 2003

**VIA MESSENGER**

**RECEIVED**

Ms. Marlene H. Dortch, Secretary  
Federal Communications Commission  
Office of the Secretary  
445-12th Street, S.W.  
TW-A325  
Washington, D.C. 20554

AUG 20 2003

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

**RE: Revision of Part 15 of the Commission's Rules Regarding  
Ultra-Wideband Transmission Systems**

**Reply Comments of Delphi Corporation**

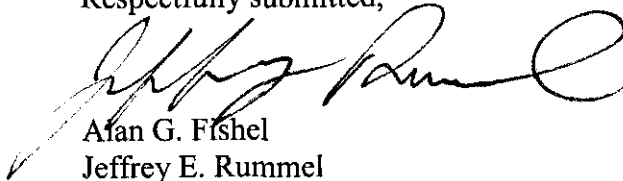
**ET Docket 98-153**

Dear Ms. Dortch:

On behalf of Delphi Corporation ("Delphi"), transmitted herewith are an original and four (4) copies of Delphi's "Reply Comments" in connection with the above-referenced proceeding.

If any questions arise with respect to these Comments, please do not hesitate to contact undersigned counsel.

Respectfully submitted,



Alan G. Fishel  
Jeffrey E. Rummel

Attorneys for Delphi Corporation

Enclosures

No. of Copies of L. 014  
List ABOVE

**Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554**

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**AUG 20 2003**

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

In the Matter of )  
 )  
Revision of Part 15 of the Commission's Rules ) ET Docket 98-153  
Regarding Ultra-Wideband Transmission )  
Systems )

**REPLY COMMENTS OF  
DELPHI CORPORATION**

Delphi Corporation ("Delphi"), by its undersigned attorneys, hereby submits these "Reply Comments" in response to the Commission's "Further Notice of Proposed Rule Making" ("FNPRM") released on March 12, 2003, in the above-captioned proceeding.<sup>1</sup> In support of these "Reply Comments," Delphi respectfully states as follows:

1. The Record Supports Inclusion of PN DS BPSK Devices and High PRF Devices in the 3.1 -- 10.6 Band

In Delphi's initial comments in response to the FNPRM filed on July 18, 2003 (filed under the name Delphi Automotive Systems Corporation) ("Initial Comments"), Delphi showed that if the Commission permits operation of any UWB device under the UWB standards currently designated for hand held devices (which Delphi strongly believes the Commission should), such permission should extend to UWB devices employing the PN DS BPSK waveform, and high PRF devices (in addition to the low PRF devices contemplated by the Commission).

As Delphi explained in its Initial Comments, there is no technical justification for excluding UWB devices employing the PN DS BPSK waveform from a band where pulsed devices are permitted in such band, and any such exclusion would be contrary to the public interest. Moreover, the Commission has already recognized the great similarities between pulsed

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<sup>1</sup> "Revision of Part 15 of the Commission's Rules Regarding Ultra-Wideband Transmission Systems", Memorandum Opinion and Order and Further Notice of Proposed Rulemaking, ET Docket No. 98-152, FCC 03-33, ¶¶153-166 (rel. March 12, 2003) ("MO&O and FNPRM").

devices and devices using the PN DS BPSK waveform in the First Report and Order in this proceeding, in which the Commission concluded with respect to vehicular radar “that various modulation types should be permitted as long as the products comply with all of the technical standards that are being adopted in this proceeding.” In particular, the Commission confirmed that PN DS BPSK is one of the modulation types approved.<sup>2</sup>

With regard to high PRF devices, as Delphi discussed in the Initial Comments, any exclusion of such devices in the 3.1 -- 10.6 GHz band where low PRF devices are included would be arbitrary and capricious and contrary to the public interest because UWB emissions are too low in power to represent a harmful interference threat in these bands.

Neither MSSSI nor any other commenter has established -- nor can they -- that UWB devices employing the PN DS BPSK waveform, or high PRF UWB devices, should be excluded from the 3.1 -- 10.6 GHz band if low PRF UWB devices are permitted in the band. Accordingly, the Commission should permit the operation of any UWB device pursuant to the UWB standards currently designated for hand held devices, but only so long as the permission granted would extend as well to devices employing the PN DS BPSK waveform, and high PRF UWB devices.

2. The Commission Should Adopt The Proposed Rule Changes to Section 15.35(b) Set Forth in Paragraph 164 of the FNPRM

The Commission should adopt the proposed changes to Section 15.35(b) set forth in paragraph 164 of the FNPRM. As discussed in the Initial Comments, Section 15.35(b) currently constrains peak emissions of non-UWB part 15 wideband devices to levels well below that of UWB devices. The modifications proposed in paragraph 164 will correct this imbalance. Several other commenters support this proposed rule change, and no commenters oppose this change. Accordingly, Delphi submits that the Commission’s proposal should be adopted.

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<sup>2</sup> “Revision of Part 15 of the Commission’s Rules Regarding Ultra-Wideband Transmission Systems”, First Report

3. The Peak Power Proposal of MSSSI Should Be Rejected

The proposal of MSSSI to use a 1 MHz bandwidth in measuring the peak power of an emitter is inappropriate. As discussed in the Initial Comments, MSSSI's proposed rule could potentially allow extremely high peak power emissions due to the narrow bandwidth of the proposed measurement. The MSSSI proposal would allow as much as 20 times greater peak power for low PRF radar than the Commission has contemplated, and thus it should be rejected.

4. The Commission Should Eliminate The Minimum Bandwidth Requirement

For the reasons set forth in the Initial Comments, the Commission should eliminate the requirement of a minimum emissions bandwidth of 500 MHz in order to qualify a device as a UWB device. Several other commenters support the elimination of this requirement as well, and no commenters oppose it. Accordingly, Delphi submits the requirement should be eliminated.

Conclusion

For the reasons set forth herein and in the Initial Comments, the Commission should adopt rules consistent with the comments and proposals of Delphi, as specified in the *Initial Comments* and these *Reply Comments*.

Respectfully submitted,

**DELPHI CORPORATION**

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Dated: August 20, 2003